



SUB-MINIATURE LAMPS

SYLVANIA
A SUBSIDIARY OF
GENERAL TELEPHONE & ELECTRONICS

ELECTRIC PRODUCTS INC.
MINIATURE LIGHTING PRODUCTS, Estes Street, Ipswich, Mass.

INTRODUCTION

For more than 65 years, Sylvania — a leading lamp innovator and manufacturer has designed and produced many thousands of different kinds of reliable long-life lamps with applications ranging from simple home lighting to illuminating complex electronic instruments and systems.

It is from this origin that Sylvania has emerged as a primary manufacturer of a broad line of miniature lighting systems which feature simplicity of design with built-in environmental reliability.

Now to accommodate the trend towards miniaturization of electronic equipment and to offer a further choice to the designer of this equipment, Sylvania introduces a new line of Sub-miniature Lamps from T-3/4 through T-1 3/4.

Today, only Sylvania offers the total package — combining long-life lamps, durable housings and colorful lenses to provide the specifier with the broadest line of reliable miniature lighting products.

Sylvania: where new ideas are brought to light.

GENERAL LAMP INFORMATION

Lamp Number

Lamp numbers are recorded with the American Standards Association and are utilized throughout the industry. For ordering purposes, the use of the lamp number is sufficient.

Manufacturing Code and Line Number

Use of these two numbers is to assist you in identifying specific lamp types. They are not significant as to ordering or technical information.

DESIGN VOLTAGE AND DESIGN AMPERAGE

Design voltage represents the voltage at which the lamp will operate at its rated amperage, M.S.C.P. and life characteristics. Design amperage is the amount of current flowing through a lamp at design voltage. This is subject to manufacturing tolerances.

Sylvania Miniature Lamps do not have to be operated at their designed parameters. To assist you in determining the effects of changes of these parameters, please refer to the following graphs.

Indicator lamps have a mortality curve similar to that of other incandescent lamps. Life rating varies with the applied voltage and this relationship is shown in Figure 1.

Applied voltage affects current and light output as well as the life rating of the lamps. The relationship between current and voltage, light output and voltage is shown in Figures 2 and 3.

MEAN SPHERICAL CANDLEPOWER

MSCP is measured in a photometric sphere. This is the total visual energy emitted from the source. Lumens is the same energy expressed in different units and may be calculated by the following formula:

$$\text{Lumens} = \frac{\text{MSCP}}{4 \pi}$$

OHM'S LAW

OHM'S LAW — for determining lamp resistance. Ohm's Law is the expression of the relationship in a circuit between voltage, resistance of the wires, and the resistance of the lamp. Therefore the current in amperes in a circuit is the voltage, in volts, divided by the resistance of the circuit in Ohms. This is more commonly expressed in symbols as follows:

$$I = \frac{E}{R}$$

where I = current
E = voltage
R = resistance

RATED LIFE

The lamp life as listed, is the average laboratory life obtained under static conditions. It is not necessarily the same as operating life where environmental shock, vibration, voltage variations, and temperature may result in a shorter life.

NOTE: This catalog contains specifications which are correct as of May 1, 1968. When equipment design is involved, contact the nearest Miniature Lighting Products Sales Office for the latest specification information.

Fig. 1

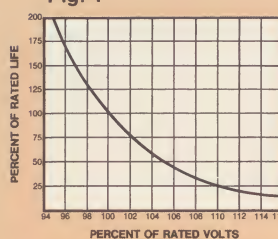


Fig. 2

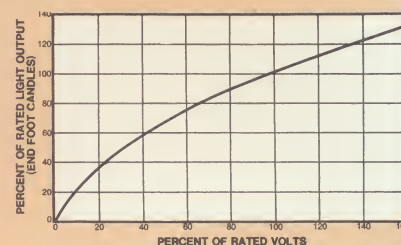
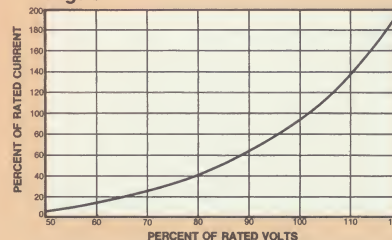


Fig. 3



CROSS REFERENCE INDEX

Lamp No.	Manufacturing Code	Page Number	Line Number
252	35803-0	13	272
253	35804-0	13	273
253X	35805-0	13	274
261	35806-0	13	275
268	35419-0	10	174
323	35724-0	9	127
323L	35726-0	9	129
323R	35725-0	9	128
324	35700-0	8	102
325	35717-0	8	119
326	35723-0	9	126
327	35590-0	11	208
327A	35440-0	11	209
327AF	35441-0	11	210
327AS10	35442-0	11	211
327AS15	35590-1	11	212
327AS25	35443-0	11	213
327R	35590-3	11	214
327/15	35590-2	11	215
328	35593-0	10	180
328AS10	35423-0	10	181
328AS15	35424-0	10	182
328AS25	35425-0	10	183
328L	35426-0	10	184
328R	35593-1	10	185
329	35716-0	8	118
330	35550-0	10	197
330AS15	35433-0	10	198
331	35551-0	10	172
332	35422-0	10	179
333	35722-0	9	125
334	35552-0	11	246
334AS15	35467-0	11	247
334AS25	35468-0	11	248
335	35553-0	11	227
335AS15	35454-0	11	228
335AS25	35455-0	11	229
336	35588-0	11	242
337	35554-0	11	232
337AS10	35458-0	11	233
337AS15	35459-0	11	234
337AS25	35460-0	11	235
337L	35461-0	11	236
338	35555-0	10	176
339AS15	35925-0	14	303
339AS25	35924-0	14	302
340	35556-0	11	207
341AS15	35927-0	14	305
341AS25	35926-0	14	304
342	35557-0	11	219
343	35420-0	10	175

Lamp No.	Manufacturing Code	Page Number	Line Number
344	35558-0	10	194
345	35559-0	10	178
346	35560-0	11	243
349	35561-0	10	193
350	35562-0	10	188
367	35563-0	10	195
368	35450-0	10	173
370	35586-0	10	200
371	35719-0	9	121
373	35449-0	11	226
375	35421-0	10	177
376	35444-0	11	216
377	35428-0	10	187
378	35448-0	11	225
379	35462-0	11	237
380	35427-0	10	186
381	35429-0	10	189
381AS10	35430-0	10	190
381AS15	35431-0	10	191
381AS25	35432-0	10	192
382	35585-0	10	196
385	35436-0	10	202
386	35465-0	11	241
387	35592-0	11	203
387AS15	35437-0	11	204
387AS25	35438-0	11	205
387R	35439-0	11	206
388	35451-0	11	245
397	35464-0	11	240
398	35452-0	11	238
399	35456-0	11	230
457	35466-0	11	244
459	35435-0	10	201
634	35701-0	8	104
673	35718-0	8	120
680	35600-0	6	36
680AS10	35679-0	6	37
680AS15	35600-1	6	38
682	35610-0	7	84
682AS10	35693-0	7	85
682AS15	35610-1	7	86
683	35603-0	6	43
683AS10	35690-0	6	44
683AS15	35603-1	6	45
685	35613-0	7	87
685AS10	35694-0	7	88
685AS15	35613-1	8	89
698	35457-0	11	231
709	35463-0	11	239
713	35601-0	7	51
713AS10	35691-0	7	52

CROSS REFERENCE INDEX

Lamp No.	Manufacturing Code	Page Number	Line Number
713AS15	35601-1	7	53
714	35611-0	8	90
714AS10	35695-0	8	91
714AS15	35611-1	8	92
715	35602-0	7	58
715AS10	35692-0	7	59
715AS15	35602-1	7	60
718	35612-0	8	93
718AS10	35696-0	8	94
718AS15	35612-1	8	95
737	35714-0	8	117
930	35908-0	14	286
930AS15	35909-0	14	287
931	35910-0	14	288
931AS15	35911-0	14	289
932	35914-0	14	292
932AS15	35915-0	14	293
933	35912-0	14	290
933AS15	35913-0	14	291
1189AS15	35917-0	14	295
1189AS25	35916-0	14	294
1190AS15	35919-0	14	297
1190AS25	35918-0	14	296
1191AS15	35921-0	14	299
1191AS25	35920-0	14	298
1705	35567-0	10	162
1705L	35413-0	10	163
1728	35400-0	9	141
1730	35568-0	10	148
1738	35587-0	9	144
1739	35569-0	10	153
1762	35591-0	10	168
1764	35571-0	10	169
1764AS15	35417-0	10	170
1764AS25	35418-0	10	171
1767	35572-0	11	217
1768	35573-0	11	220
1768AS10	35445-0	11	221
1768AS15	35446-0	11	222
1768L	35447-0	11	224
1769	35574-0	11	218
1775	35575-0	11	223
1783	35401-0	9	142
1784	35576-0	10	149
1784AS10	35406-0	10	150
1784AS15	35407-0	10	151
1869	35578-0	10	157
2102	35583-0	10	165
2107	35581-0	10	158
2112	35410-0	10	156
2114	35582-0	8	103

Lamp No.	Manufacturing Code	Page Number	Line Number
2124	35808-0	13	277
2128	35620-0	6	31
2132	35412-0	10	161
2134	35405-0	10	147
2140	35802-0	13	271
2156	35404-0	9	146
2158	35403-0	9	145
2160	35411-0	10	160
2162	35414-0	10	164
2169	35402-0	9	143
2180	35408-0	10	152
2181	35589-0	10	155
2182	35584-0	10	159
2185	35415-0	10	166
2187	35416-0	10	167
6801	35623-0	6	34
6801AS15	35624-0	6	35
6802	35621-0	6	32
6802AS15	35622-0	6	33
6803	35650-0	6	1
6803AS15	35651-0	6	2
6804	35644-0	7	67
6804AS15	35645-0	7	68
6805	35661-0	6	12
6805AS15	35662-0	6	13
6806	35900-0	14	278
6806AS15	35901-0	14	279
6807	35902-0	14	280
6807AS15	35903-0	14	281
6808	35904-0	14	282
6808AS15	35905-0	14	283
6809	35906-0	14	284
6809AS15	35907-0	14	285
6831	35627-0	6	41
6831AS15	35628-0	6	42
6832	35625-0	6	39
6832AS15	35626-0	6	40
6833	35652-0	6	3
6833AS15	35653-0	6	4
6834	35646-0	7	69
6834AS15	35647-0	7	70
6835	35663-0	6	14
6835AS15	35664-0	6	15
6838	35643-0	7	66
6839	35696-0	8	101
7131	35632-0	7	49
7131AS15	35633-0	7	50
7132	35630-0	6	47
7132AS15	35631-0	7	48
7133	35654-0	6	5
7133AS15	35655-0	6	6

CROSS REFERENCE INDEX

Lamp No.	Manufacturing Code	Page Number	Line Number
7134	35648-0	7	71
7134AS15	35649-0	7	72
7135	35665-0	6	16
7135AS15	35666-0	6	17
7151	35636-0	7	56
7151AS15	35637-0	7	57
7152	35634-0	7	54
7152AS15	35635-0	7	55
7153	35658-0	6	9
7153AS15	35659-0	6	10
7154	35680-0	7	73
7154AS15	35681-0	7	74
7155	35667-0	6	18
7155AS15	35668-0	6	19
7327	35488-0	12	268
7344	35481-0	12	261
7377	35476-0	12	256
7380	35477-0	12	257
7381	35480-0	12	260
7382	35483-0	12	263
7387	35487-0	12	267
7680	35682-0	7	75
7683	35683-0	7	76
7715	35685-0	7	78
8270	35677-0	6	28
8270AS15	35678-0	6	29
8299	35807-0	13	276
8350	35409-0	10	154
8383	35675-0	6	26
8383AS15	35676-0	6	27
8515AS15	35923-0	14	301
8515AS25	35922-0	14	300
8587	35669-0	6	20
8587AS15	35670-0	6	21
8623	35729-0	9	132
8623AS15	35730-0	9	133
8623AS25	35731-0	9	134
8627	35702-0	8	105
8627AS15	35703-0	8	106
8627AS25	35704-0	8	107
8632	35711-0	8	114
8632AS15	35712-0	8	115
8632AS25	35713-0	8	116
8635	35715-0	8	122
8635AS15	35720-0	8	123
8635AS25	35721-0	8	124
8639	35727-0	9	130
8639AS15	35728-0	9	131
8666	35656-0	6	7
8666AS15	35657-0	6	8

Lamp No.	Manufacturing Code	Page Number	Line Number
8828	35673-0	6	24
8828AS15	35674-0	6	25
8913	35671-0	6	22
8913AS15	35672-0	6	23
8918	35434-0	10	199
S8-189	35735-0	9	138
S8-190	35732-0	9	135
S8-191	35736-0	9	139
S8-192	35733-0	9	136
S8-193	35737-0	9	140
S8-194	35734-0	9	137
S8-683F1	35629-0	6	46
S8-715F1	35638-0	7	61
S8-718F1	35691-0	8	96
S8-725F1	35660-0	6	11
S8-1088	35639-0	7	62
S8-1089	35640-0	7	63
S8-1092	35642-0	7	65
S8-1098	35692-0	8	97
S8-1099	35693-0	8	98
S8-1100	35695-0	8	100
S8-1111	35641-0	7	64
S8-1112	35694-0	8	99
S8-1415	35801-0	13	270
S8-1425	35800-0	13	269
S7-328	35474-0	12	254
S7-330	35484-0	12	264
S7-331	35469-0	12	249
S7-332	35475-0	12	255
S7-338	35471-0	12	251
S7-345	35473-0	12	253
S7-349	35478-0	12	258
S7-350	35479-0	12	259
S7-367	35482-0	12	262
S7-368	35470-0	12	250
S7-370	35485-0	12	265
S7-375	35472-0	12	252
S7-459	35486-0	12	266
S7-628	35708-0	8	111
S7-636	35705-0	8	108
S7-637	35706-0	8	109
S7-646	35709-0	8	112
S7-660	35707-0	8	110
S7-714	35684-0	7	77
S7-1098	35686-0	7	79
S7-1099	35687-0	7	80
S7-1100	35689-0	7	82
S7-1112	35688-0	7	81
S7-6839	35690-0	7	83
S7-8632	35710-0	8	113

T-3/4

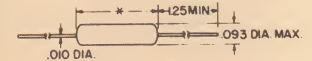
Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches
1	6803	35650-0	5.0	.06	.032 ± 25%	100,000	C-2R	0.187
2	6803AS15	35651-0	5.0	.06	.032 ± 15%	100,000	C-2R	0.187
3	6833	35652-0	5.0	.06	.053 ± 25%	100,000	C-2R	0.187
4	6833AS15	35653-0	5.0	.06	.053 ± 15%	100,000	C-2R	0.187
5	7133	35654-0	5.0	.075	.088 ± 25%	25,000	C-2R	0.187
6	7133AS15	35655-0	5.0	.075	.088 ± 15%	25,000	C-2R	0.187
7	8666	35656-0	5.0	.08	.15 ± 25%	3,000	C-2R	0.187
8	8666AS15	35657-0	5.0	.08	.15 ± 15%	3,000	C-2R	0.187
9	7153	35658-0	5.0	.115	.147 ± 25%	40,000	C-2R	0.187
10	7153AS15	35659-0	5.0	.115	.147 ± 15%	40,000	C-2R	0.187
11	S8-725F1	35660-0	5.0	.125	.22 ± 25%	5,000	C-2R	0.187

Wire Terminal



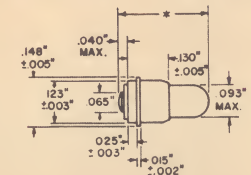
12	6805	35661-0	5.0	.06	.032 ± 25%	100,000	C-6	0.35
13	6805AS15	35662-0	5.0	.06	.032 ± 15%	100,000	C-6	0.35
14	6835	35663-0	5.0	.06	.053 ± 25%	100,000	C-6	0.35
15	6835AS15	35664-0	5.0	.06	.053 ± 15%	100,000	C-6	0.35
16	7135	35665-0	5.0	.075	.088 ± 25%	25,000	C-6	0.35
17	7135AS15	35666-0	5.0	.075	.088 ± 15%	25,000	C-6	0.35
18	7155	35667-0	5.0	.115	.147 ± 25%	40,000	C-6	0.35
19	7155AS15	35668-0	5.0	.115	.147 ± 15%	40,000	C-6	0.35

Axial Lead



20	8587	35669-0	5.0	.06	.032 ± 25%	100,000	C-2R	0.30
21	8587AS15	35670-0	5.0	.06	.032 ± 15%	100,000	C-2R	0.30
22	8913	35671-0	5.0	.06	.053 ± 25%	100,000	C-2R	0.30
23	8913AS15	35672-0	5.0	.06	.053 ± 15%	100,000	C-2R	0.30
24	8828	35673-0	5.0	.075	.088 ± 25%	25,000	C-2R	0.30
25	8828AS15	35674-0	5.0	.075	.088 ± 15%	25,000	C-2R	0.30
26	8383	35675-0	5.0	.08	.15 ± 25%	3,000	C-2R	0.30
27	8383AS15	35676-0	5.0	.08	.15 ± 15%	3,000	C-2R	0.30
28	8270	35677-0	5.0	.115	.147 ± 25%	40,000	C-2R	0.30
29	8270AS15	35678-0	5.0	.115	.147 ± 15%	40,000	C-2R	0.30

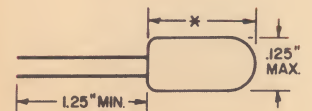
Micro-Midget Flanged Base



T-1

Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches
31	2128	35620-0	3.0	.0125	.001	16,000	C-6	0.25
32	6802	35621-0	5.0	.06	.032 ± 25%	100,000	C-2R	0.145
33	6802AS15	35622-0	5.0	.06	.032 ± 15%	100,000	C-2R	0.145
34	6801	35623-0	5.0	.06	.032 ± 25%	200,000	C-2R	0.187
35	6801AS15	35624-0	5.0	.06	.032 ± 15%	200,000	C-2R	0.187
36	680	35600-0	5.0	.06	.032 ± 25%	200,000	C-2R	0.25
37	680AS10	35679-0	5.0	.06	.032 ± 10%	200,000	C-2R	0.25
38	680AS15	35600-1	5.0	.06	.032 ± 15%	200,000	C-2R	0.25
39	6832	35625-0	5.0	.06	.053 ± 25%	100,000	C-2R	0.145
40	6832AS15	35626-0	5.0	.06	.053 ± 15%	100,000	C-2R	0.145
41	6831	35627-0	5.0	.06	.053 ± 25%	100,000	C-2R	0.187
42	6831AS15	35628-0	5.0	.06	.053 ± 15%	100,000	C-2R	0.187
43	683	35603-0	5.0	.06	.053 ± 25%	100,000	C-2R	0.25
44	683AS10	35690-0	5.0	.06	.053 ± 10%	100,000	C-2R	0.25
45	683AS15	35603-1	5.0	.06	.053 ± 15%	100,000	C-2R	0.25
46	S8-683F1	35629-0	5.0	.063	.060 ± 25%	60,000	C-2R	0.25
47	7132	35630-0	5.0	.075	.088 ± 25%	25,000	C-2R	0.145
48	7132AS15	35631-0	5.0	.075	.088 ± 15%	25,000	C-2R	0.145

Wire Terminal





T-1

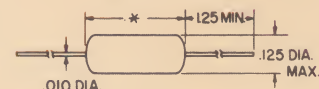
(continued)

Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches
49	7131	35632-0	5.0	.075	.088 ± 25%	25,000	C-2R	0.187
50	7131AS15	35633-0	5.0	.075	.088 ± 15%	25,000	C-2R	0.187
51	713	35601-0	5.0	.075	.088 ± 25%	25,000	C-2R	0.25
52	713AS10	35691-0	5.0	.075	.088 ± 10%	25,000	C-2R	0.25
53	713AS15	35601-1	5.0	.075	.088 ± 15%	25,000	C-2R	0.25
54	7152	35634-0	5.0	.115	.147 ± 25%	40,000	C-2R	0.145
55	7152AS15	35635-0	5.0	.115	.147 ± 15%	40,000	C-2R	0.145
56	7151	35636-0	5.0	.115	.147 ± 25%	40,000	C-2R	0.187
57	7151AS15	35637-0	5.0	.115	.147 ± 15%	40,000	C-2R	0.187
58	715	35602-0	5.0	.115	.147 ± 25%	40,000	C-2R	0.25
59	715AS10	35692-0	5.0	.115	.147 ± 10%	40,000	C-2R	0.25
60	715AS15	35602-1	5.0	.115	.147 ± 15%	40,000	C-2R	0.25
61	S8-715F1	35638-0	5.0	.125	.22 ± 25%	5,000	C-2R	0.25
62	S8-1088	35639-0	10.0	.027	.10 ± 25%	10,000	C-2F	0.25
63	S8-1089	35640-0	12.0	.06	.15 ± 25%	16,000	C-2F	0.25
64	S8-1111	35641-0	14.0	.065	.15 ± 25%	12,000	C-2F	0.25
65	S8-1092	35642-0	18.0	.026	.15 ± 25%	10,000	C-2F	0.25
66	6838	35643-0	28.0	.024	.15 ± 25%	16,000	C-2F	0.25
67	6804	35644-0	5.0	.06	.032 ± 25%	100,000	C-6	0.40
68	6804AS15	35645-0	5.0	.06	.032 ± 15%	100,000	C-6	0.40
69	6834	35646-0	5.0	.06	.053 ± 25%	100,000	C-6	0.40
70	6834AS15	35647-0	5.0	.06	.053 ± 15%	100,000	C-6	0.40
71	7134	35648-0	5.0	.075	.088 ± 25%	25,000	C-6	0.40
72	7134AS15	35649-0	5.0	.075	.088 ± 15%	25,000	C-6	0.40
73	7154	35680-0	5.0	.115	.147 ± 25%	40,000	C-6	0.40
74	7154AS15	35681-0	5.0	.115	.147 ± 15%	40,000	C-6	0.40
75	7680	35682-0	5.0	.06	.032 ± 25%	200,000	C-2R	0.36
76	7683	35683-0	5.0	.06	.053 ± 25%	100,000	C-2R	0.36
77	S7-714	35684-0	5.0	.075	.088 ± 25%	25,000	C-2R	0.36
78	7715	35685-0	5.0	.115	.147 ± 25%	40,000	C-2R	0.36
79	S7-1098	35686-0	10.0	.027	.10 ± 25%	10,000	C-2F	0.36
80	S7-1099	35687-0	12.0	.06	.15 ± 25%	16,000	C-2F	0.36
81	S7-1112	35688-0	14.0	.065	.15 ± 25%	12,000	C-2F	0.36
82	S7-1100	35689-0	18.0	.026	.15 ± 25%	10,000	C-2F	0.36
83	S7-6839	35690-0	28.0	.024	.15 ± 25%	16,000	C-2F	0.36
84	682	35610-0	5.0	.06	.032 ± 25%	200,000	C-2R	0.375
85	682AS10	35693-0	5.0	.06	.032 ± 10%	200,000	C-2R	0.375
86	682AS15	35610-1	5.0	.06	.032 ± 15%	200,000	C-2R	0.375
87	685	35613-0	5.0	.06	.053 ± 25%	100,000	C-2R	0.375
88	685AS10	35694-0	5.0	.06	.053 ± 10%	100,000	C-2R	0.375

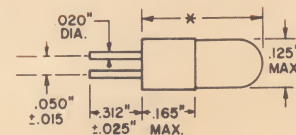
Wire Terminal



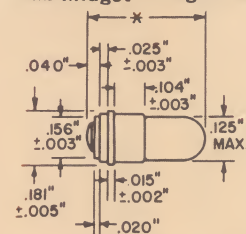
Axial Lead



Bi-Pin Base



Sub-Midget Flanged Base



T-1 (continued)

Line Number	Lamp Number	Mfg. Code	DESIGN Volts	DESIGN Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches	
89	785AS15	35613-1	5.0	.06	.053 ± 15%	100,000	C-2R	0.375	Sub-Midget Flanged Base
90	714	35611-0	5.0	.075	.088 ± 25%	25,000	C-2R	0.375	
91	714AS10	35695-0	5.0	.075	.088 ± 10%	25,000	C-2R	0.375	
92	714AS15	35611-1	5.0	.075	.088 ± 15%	25,000	C-2R	0.375	
93	718	35612-0	5.0	.115	.147 ± 25%	40,000	C-2R	0.375	
94	718AS10	35696-0	5.0	.115	.147 ± 10%	40,000	C-2R	0.375	
95	718AS15	35612-1	5.0	.115	.147 ± 15%	40,000	C-2R	0.375	
96	S8-718F1	35691-0	5.0	.125	.22 ± 25%	5,000	C-2R	0.375	
97	S8-1098	35692-0	10.0	.027	.10 ± 25%	10,000	C-2F	0.375	
98	S8-1099	35693-0	12.0	.06	.15 ± 25%	16,000	C-2F	0.375	
99	S8-1112	35694-0	14.0	.065	.15 ± 25%	12,000	C-2F	0.375	
100	S8-1100	35695-0	18.0	.026	.15 ± 25%	10,000	C-2F	0.375	
101	6839	35696-0	28.0	.024	.15 ± 25%	16,000	C-2F	0.375	

T-1 1/4

Line Number	Lamp Number	Mfg. Code	DESIGN Volts	DESIGN Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches	
102	324	35700-0	3.0	.19	.25	350	C-2R	0.438	Wire Terminal
103	2114	35582-0	6.0	.06	.12	3,000	C-2R	0.46	
104	634	35701-0	6.0	.20	.63	500	C-2R	0.46	
105	8627	35702-0	28.0	.04	.34	1,000	C-2F	0.46	
106	8627AS15	35703-0	28.0	.04	.34 ± 15%	1,000	C-2F	0.46	
107	8627AS25	35704-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.46	
108	S7-636	35705-0	1.35	.06	.006	500	C-2R	0.625	Bi-Pin Base
109	S7-637 **	35706-0	3.0	.19	.25	350	C-2R	0.625	
110	S7-660 **	35707-0	6.0	.04	.03	1,000	C-2V	0.625	
111	S7-628 **	35708-0	6.0	.20	.63	500	C-2R	0.625	
112	S7-646 **	35709-0	14.0	.08	.43	1,000	C-2F	0.625	
113	S7-8632	35710-0	28.0	.04	.34	1,000	C-2F	0.625	
114	8632	35711-0	28.0	.04	.34	1,000	C-2F	0.625	Special Midget Flanged Base
115	8632AS15	35712-0	28.0	.04	.34 ± 15%	1,000	C-2F	0.625	
116	8632AS25	35713-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.625	
117	737 ***	35714-0	28.0	.045	.30 ± 15%	16,000	C-2F	0.55	
118	329	35716-0	2.5	.40	.55	30	C-2R	0.55	Special Screw Base
119	325	35717-0	3.0	.19	.25	350	C-2R	0.55	
120	673 **	35718-0	4.5	.285	1.05	95	C-2R	0.50	
121	371	35719-0	6.0	.06	.12	3,000	C-2R	0.55	
122	8635	35715-0	28.0	.04	.34	1,000	C-2F	0.55	
123	8635AS15	35720-0	28.0	.04	.34 ± 15%	1,000	C-2F	0.55	
124	8635AS25	35721-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.55	

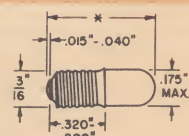
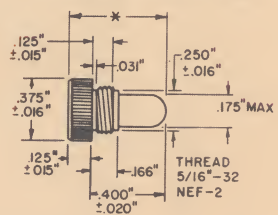
**Bulb Mod Varies.

***Special Base.

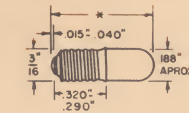
SYLVANIA

SUB-MINIATURE INCANDESCENT LAMPS

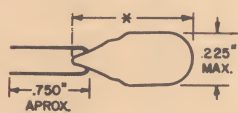
T-1¼ (continued)

Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches	
125	333	35722-0	28.0	.04	.30	1,000	C-2F	0.58	Midget Screw Base 
126	326	35723-0	2.5	.40	.55	30	C-2R	0.56	Threaded Knurled Base 
127	323	35724-0	3.0	.19	.25	350	C-2R	0.547	
128	323R(Red)	35725-0	3.0	.19		350	C-2R	0.547	
129	323L	35726-0	3.0	.19		3,500	C-2R	0.55	
130	8639	35727-0	6.0	.20	.63	500	C-2R	0.56	
131	8639AS15	35728-0	6.0	.20	.63 ± 15%	500	C-2R	0.56	
132	8623	35729-0	28.0	.04	.34	1,000	C-2F	0.56	
133	8623AS15	35730-0	28.0	.04	.34 ± 15%	1,000	C-2F	0.56	
134	8623AS25	35731-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.56	

T-1½

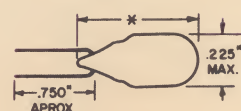
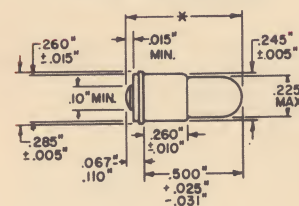
Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches	
135	S8-190	35732-0	2.5	.20	.104	3,000	C-2R	0.475	Midget Screw Base 
136	S8-192	35733-0	6.0	.20	.75	2,000	C-2R	0.475	
137	S8-194	35734-0	28.0	.04	.40	5,000	C-2F	0.475	
138	S8-189	35735-0	2.5	.20	.104	3,000	C-2R	0.575	
139	S8-191	35736-0	6.0	.20	.75	2,000	C-2R	0.60	
140	S8-193	35737-0	28.0	.04	.40	5,000	C-2F	0.575	

T-1¾

Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches	
141	1728	35400-0	1.35	.06	.01	500	C-2R	0.52	Wire Terminal 
142	1783	35401-0	2.5	.20	.22	500	C-2R	0.52	
143	2169	35402-0	2.5	.350	.210	10,000	C-2R	0.495	
144	1738	35587-0	2.7	.06	.04	6,000	C-2R	0.52	
145	2158	35403-0	3.0	.015	.002	10,000	C-6	0.52	
146	2156	35404-0	3.0	.03	.02	1,800	C-6	0.52	
147	2134	35405-0	6.0	.04	.03	1,000	C-2V	0.52	
148	1730	35568-0	6.0	.04	.03	10,000	C-2V	0.52	
149	1784	35576-0	6.0	.20	.34 1/4 5V	1,000	C-2R	0.52	

T-1^{3/4}
(continued)

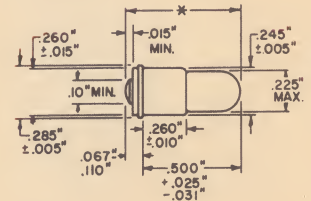
Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches
150	1784AS10	35406-0	6.0	.20	.34 ^W 5V ± 10%	1,000	C-2R	0.52
151	1784AS15	35407-0	6.0	.20	.34 ^W 5V ± 15%	1,000	C-2R	0.52
152	2180	35408-0	6.3	.04	.02	50,000	C-2V	0.52
153	1739	35569-0	6.3	.075	.22	500	C-2R	0.52
154	8350	35409-0	6.3	.15	.45	3,000	C-2R	0.52
155	2181	35589-0	6.3	.20	.40	50,000	C-2V	0.52
156	2112	35410-0	6.3	.20	.55	3,000	C-2R	0.52
157	1869	35578-0	10.0	.014	.002	10,000	C-2F	0.52
158	2107	35581-0	10.0	.04	.08	30,000	C-2F	0.52
159	2182	35584-0	14.0	.08	.30	50,000	C-2F	0.52
160	2160	35411-0	14.0	.08	.50	750	C-2F	0.52
161	2132	35412-0	14.0	.08	.50	750	C-2F	0.52
162	1705	35567-0	14.0	.08	.50	750	C-2F	0.52
163	1705L	35413-0	14.0	.088	.50	10,000	C-2F	0.52
164	2162	35414-0	14.0	.088	.50	10,000	C-2F	0.52
165	2102	35583-0	18.0	.04	.15	1,000	C-2F	0.52
166	2185	35415-0	28.0	.04	.20	50,000	C-2F	0.52
167	2187	35416-0	28.0	.04	.30	25,000	C-2F	0.52
168	1762	35591-0	28.0	.04	.34	1,000	C-2F	0.52
169	1764	35571-0	28.0	.04	.34	1,000	C-2F	0.52
170	1764AS15	35417-0	28.0	.04	.34 ± 15%	1,000	C-2F	0.52
171	1764AS25	35418-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.52
172	331	35551-0	1.35	.06	.01	500	C-2R	0.625
173	368	35450-0	2.5	.20	.22	500	C-2R	0.625
174	268	35419-0	2.5	.35	.21	10,000	C-2R	0.625
175	343	35420-0	2.5	.40	.55	30	C-2R	0.625
176	338	35555-0	2.7	.06	.04	6,000	C-2R	0.625
177	375	35421-0	3.0	.015	.002	10,000	C-6	0.625
178	345	35559-0	6.0	.04	.03	10,000	C-2V	0.625
179	332	35422-0	6.0	.20	.10	50,000	C-2F	0.625
180	328	35593-0	6.0	.20	.34 ^W 5V	1,000	C-2R	0.625
181	328AS10	35423-0	6.0	.20	.34 ^W 5V ± 10%	1,000	C-2R	0.625
182	328AS15	35424-0	6.0	.20	.34 ^W 5V ± 15%	1,000	C-2R	0.625
183	328AS25	35425-0	6.0	.20	.34 ^W 5V ± 25%	1,000	C-2R	0.625
184	328L	35426-0	6.3	.20	.55	3,000	C-2R	0.625
185	328R(Red)	35593-1	6.0	.20		1,000	C-2R	0.625
186	380	35427-0	6.3	.04	.02	50,000	C-2V	0.625
187	377	35428-0	6.3	.075	.23	500	C-2R	0.625
188	350	35562-0	6.3	.15	.45	3,000	C-2R	0.625
189	381	35429-0	6.3	.20	.40	50,000	C-2V	0.625
190	381AS10	35430-0	6.3	.20	.40 ± 10%	50,000	C-2V	0.625
191	381AS15	35431-0	6.3	.20	.40 ± 15%	50,000	C-2V	0.625
192	381AS25	35432-0	6.3	.20	.40 ± 25%	50,000	C-2V	0.625
193	349	35561-0	6.3	.20	.55	3,000	C-2R	0.625
194	344	35558-0	10.0	.014	.008	10,000	C-2F	0.625
195	367	35563-0	10.0	.04	.08	30,000	C-2F	0.625
196	382	35585-0	14.0	.08	.30	50,000	C-2F	0.625
197	330	35550-0	14.0	.08	.50	750	C-2F	0.625
198	330AS15	35433-0	14.0	.08	.50 ± 15%	750	C-2F	0.625
199	8918	35434-0	14.0	.088	.50	10,000	C-2F	0.625
200	370	35586-0	18.0	.04	.20	1,000	C-2F	0.625
201	459	35435-0	22.0	.04	.30	2,000	C-2F	0.625
202	385	35436-0	28.0	.04	.20	50,000	C-2F	0.625

**Wire Terminal
(Continued)**

Midget Flanged Base


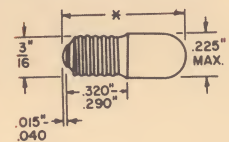
T-1 3/4 (continued)

Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches
203	387	35592-0	28.0	.04	.30	25,000	C-2F	0.625
204	387AS15	35437-0	28.0	.04	.30 ± 15%	25,000	C-2F	0.625
205	387AS25	35438-0	28.0	.04	.30 ± 25%	25,000	C-2F	0.625
206	387R(Red)	35439-0	28.0	.04		25,000	C-2F	0.625
207	340	35556-0	28.0	.04	.34	1,000	C-2F	0.625
208	327	35590-0	28.0	.04	.34	1,000	C-2F	0.625
209	327A(Amber)	35440-0	28.0	.04		1,000	C-2F	0.625
210	327AF(All Frost)	35441-0	28.0	.04		1,000	C-2F	0.625
211	327AS10	35442-0	28.0	.04	.34 ± 10%	1,000	C-2F	0.625
212	327AS15	35590-1	28.0	.04	.34 ± 15%	1,000	C-2F	0.625
213	327AS25	35443-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.625
214	327R(Red)	35590-3	28.0	.04		1,000	C-2F	0.625
215	327/15	35590-2	28.0	.04		1,000	C-2F	0.625
216	376	35444-0	28.0	.06	.34	25,000	C-2F	0.625
217	1767	35572-0	2.5	.20	.20	500	C-2R	0.688
218	1769	35574-0	2.5	.20	.22	500	C-2R	0.688
219	342	35557-0	6.0	.04	.03	10,000	C-2V	0.688
220	1768	35573-0	6.0	.20	.34 @ 5V	1,000	C-2R	0.688
221	1768AS10	35445-0	6.0	.20	.34 @ 5V ± 10%	1,000	C-2R	0.688
222	1768AS15	35446-0	6.0	.20	.34 @ 5V 15%	1,000	C-2R	0.688
223	1775	35575-0	6.3	.075	.22	500	C-2R	0.688
224	1768L	35447-0	6.3	.20	.55	3,000	C-2R	0.688
225	378	35448-0	6.3	.20	.40	50,000	C-2V	0.688
226	373	35449-0	14.0	.08	.50	750	C-2F	0.688
227	335	35553-0	28.0	.04	.34	1,000	C-2F	0.688
228	335AS15	35454-0	28.0	.04	.34 ± 15%	1,000	C-2F	0.688
229	335AS25	35455-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.688
230	399	35456-0	28.0	.04	.30	25,000	C-2F	0.688
231	698	35457-0	1.35	.06	.01	500	C-2R	0.625
232	337	35554-0	6.0	.20	.34 @ 5V	1,000	C-2R	0.625
233	337AS10	35458-0	6.0	.20	.34 @ 5V ± 10%	1,000	C-2R	0.625
234	337AS15	35459-0	6.0	.20	.34 @ 5V ± 15%	1,000	C-2R	0.625
235	337AS25	35460-0	6.0	.20	.34 @ 5V ± 25%	1,000	C-2R	0.625
236	337L	35461-0	6.3	.20	.55	3,000	C-2R	0.625
237	379	35462-0	6.3	.20	.40	50,000	C-2V	0.625
238	398	35452-0	6.3	.20	.55	3,000	C-2R	0.625
239	709	35463-0	10.0	.014	.008	10,000	C-2F	0.625
240	397	35464-0	10.0	.04	.08	30,000	C-2F	0.52
241	386	35465-0	14.0	.08	.30	50,000	C-2F	0.625
242	336	35588-0	14.0	.08	.50	750	C-2F	0.625
243	346	35560-0	18.0	.04	.20	1,000	C-2F	0.625
244	457	35466-0	22.0	.04	.30	2,000	C-2F	0.625
245	388	35451-0	28.0	.04	.30	25,000	C-2F	0.625
246	334	35552-0	28.0	.04	.34	1,000	C-2F	0.625
247	334AS15	35467-0	28.0	.04	.34 ± 15%	1,000	C-2F	0.625
248	334AS25	35468-0	28.0	.04	.34 ± 25%	1,000	C-2F	0.625

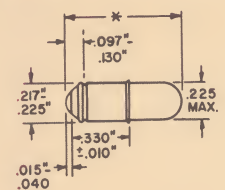
Midget Flanged Base



Midget Screw Base



Midget Grooved Base

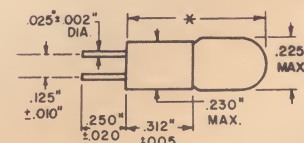


T-1^{3/4}

(continued)

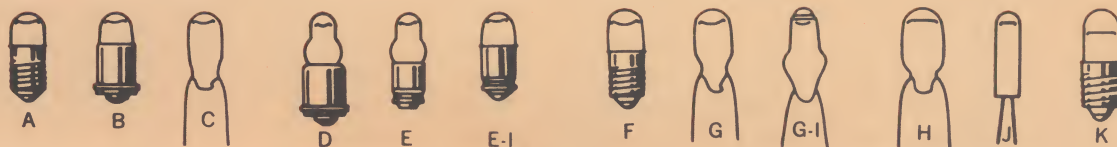
Line Number	Lamp Number	Mfg. Code	DESIGN		M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches
			Volts	Amps				
249	S7-331	35469-0	1.35	.06	.01	500	C-2R	0.625
250	S7-368	35470-0	2.5	.20	.22	500	C-2R	0.625
251	S7-338	35471-0	2.7	.06	.04	6,000	C-2R	0.625
252	S7-375	35472-0	3.0	.015	.002	10,000	C-6	0.625
253	S7-345	35473-0	6.0	.04	.03	10,000	C-2V	0.625
254	S7-328	35474-0	6.0	.20	.34 ^(a) 5V	1,000	C-2R	0.625
255	S7-332	35475-0	6.0	.20	.10	50,000	C-2F	0.625
256	7377	35476-0	6.3	.075	.23	500	C-2R	0.625
257	7380	35477-0	6.3	.04	.02	50,000	C-2V	0.625
258	S7-349	35478-0	6.3	.20	.55	3,000	C-2R	0.625
259	S7-350	35479-0	6.3	.15	.45	3,000	C-2R	0.625
260	7381	35480-0	6.3	.20	.40	50,000	C-2V	0.625
261	7344	35481-0	10.0	.014	.002	10,000	C-2F	0.625
262	S7-367	35482-0	10.0	.04	.08	30,000	C-2F	0.625
263	7382	35483-0	14.0	.08	.30	50,000	C-2F	0.625
264	S7-330	35484-0	14.0	.08	.50	750	C-2F	0.625
265	S7-370	35485-0	18.0	.04	.20	1,000	C-2F	0.625
266	S7-459	35486-0	22.0	.04	.30	2,000	C-2F	0.625
267	7387	35487-0	28.0	.04	.30	25,000	C-2F	0.625
268	7327	35488-0	28.0	.04	.34	1,000	C-2F	0.625

Bi-Pin Base



GTL, SL, TL SHAPES LENS-END LAMPS

Line Number	Lamp Number	Mfg. Code	Envelope Size	Shape	Volts	Amps	Base	Life (Hrs.)	Fila.	Max. Overall Length	See Spot Characteristics Below
269	S8-1425	35800-0	TL-3/4	J	5.0	.115	Wire Term.	16,000	C-2R	1/4"	None
270	S8-1415	35801-0	TL-1	J	5.0	.115	Wire Term.	40,000	C-2R	5/16"	None
271	2140	35802-0	GTL-1-3/4	G-1	2.5	.35	Wire Term.	10,000	C-2R	9/16"	None
272	252	35803-0	GTL-1-3/4	D	2.5	.35	Mid. Flange	10,000	C-2R	11/16"	A
273	253	35804-0	GTL-1-3/4	E	2.5	.35	Mid. Groove	10,000	C-2R	11/16"	A
274	253X	35805-0	GTL-1-3/4	E	2.5	.35	Mid. Groove	10,000	C-2R	11/16"	B
275	261	35806-0	GTL-1-3/4	E	2.5	.35	Mid. Groove	10,000	C-2R	11/16"	C
276	8299	35807-0	TL-1-3/4	F	2.5	.35	Mid. Screw	10,000	C-2R	11/16"	None
277	2124	35808-0	GTL-1-3/4	G-1	2.5	.35	Wire Term.	10,000	C-2R	9/16"	None

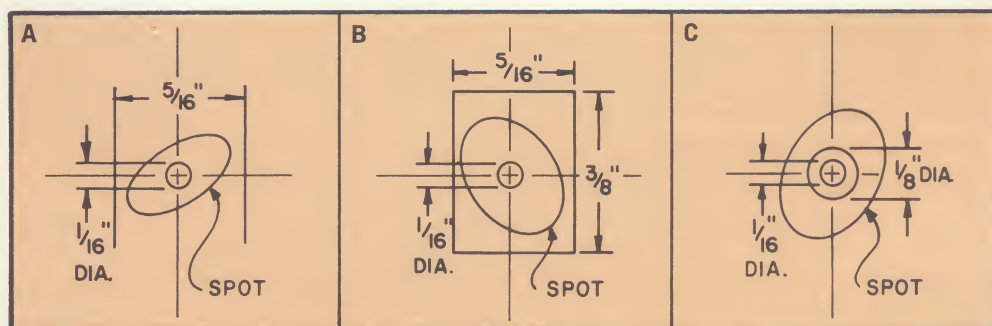


FOOTNOTES: All lens end lamps listed are available in the style base most suitable to the application on special order.

SPOT CHARACTERISTICS

Spots produced by lens-end lamps vary in shape from elliptical to round. Their respective spot characteristics are defined in the following manner:

1. With the lamp .375" from tip to surface, the spot shape is defined within the limits shown below. The filament must be positioned in the vertical plane and the solder spot (groove base) should be 25° maximum from the vertical axis. The spot must completely cover a 1/16" diameter circle.
2. Within the 1/16" diameter circle a minimum of 750 foot candles must be maintained when operating at 2.5 volts and at a distance of .375".



HELIUM RETARDANT LAMPS

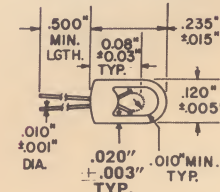
Helium retardant lamps are utilized in applications which require a helium fill for leak checking, heat sinking, lubrication or low resistance (drag) atmosphere. Although helium

permeation cannot be completely stopped, the rate is decreased by the use of thicker walled glass envelopes.

T-1

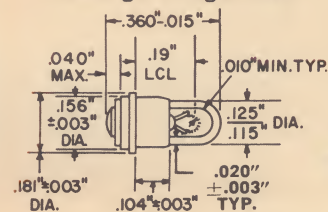
Line Number	Lamp Number	Mfg. Code	DESIGN Volts	Amps	M.S.C.P. Approx.	Life (Hrs.)	Fila.	M.O.L. Inches
278	6806	35900-0	5.0	0.06	0.03 ± 25%	60,000	C-2R	.25
279	6806AS15	35901-0	5.0	0.06	0.03 ± 15%	60,000	C-2R	.25
280	6807	35902-0	5.0	0.06	0.05 ± 25%	40,000	C-2R	.25
281	6807AS15	35903-0	5.0	0.06	0.05 ± 15%	40,000	C-2R	.25
282	6808	35904-0	5.0	0.075	0.09 ± 25%	16,000	C-2R	.25
283	6808AS15	35905-0	5.0	0.075	0.09 ± 15%	16,000	C-2R	.25
284	6809	35906-0	5.0	0.115	0.15 ± 25%	16,000	C-2R	.25
285	6809AS15	35907-0	5.0	0.115	0.15 ± 15%	16,000	C-2R	.25

Wire Terminal



286	930	35908-0	5.0	0.06	0.03 ± 25%	60,000	C-2R	.375
287	930AS15	35909-0	5.0	0.06	0.03 ± 15%	60,000	C-2R	.375
288	931	35910-0	5.0	0.06	0.05 ± 25%	40,000	C-2R	.375
289	931AS15	35911-0	5.0	0.06	0.05 ± 15%	40,000	C-2R	.375
290	933	35912-0	5.0	0.075	0.09 ± 25%	16,000	C-2R	.375
291	933AS15	35913-0	5.0	0.075	0.09 ± 15%	16,000	C-2R	.375
292	932	35914-0	5.0	0.115	0.15 ± 25%	16,000	C-2R	.375
293	932AS15	35915-0	5.0	0.115	0.15 ± 15%	16,000	C-2R	.375

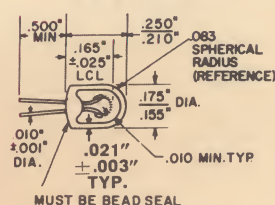
Sub-Midget Flanged Base



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294	1189AS25	35916-0	5.0	0.06	0.03 ± 25%	60,000	C-2R	.25
295	1189AS15	35917-0	5.0	0.06	0.03 ± 15%	60,000	C-2R	.25
296	1190AS25	35918-0	5.0	0.06	0.05 ± 25%	40,000	C-2R	.25
297	1190AS15	35919-0	5.0	0.06	0.05 ± 15%	40,000	C-2R	.25
298	1191AS25	35920-0	5.0	0.075	0.09 ± 25%	16,000	C-2R	.25
299	1191AS15	35921-0	5.0	0.075	0.09 ± 15%	16,000	C-2R	.25
300	8515AS25	35922-0	5.0	0.115	0.15 ± 25%	16,000	C-2R	.25
301	8515AS15	35923-0	5.0	0.115	0.15 ± 15%	16,000	C-2R	.25

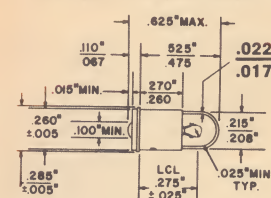
Wire Terminal



T-1 3/4

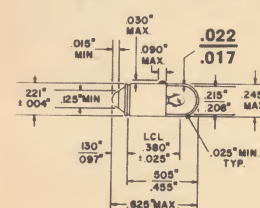
302	339AS25	35924-0	5.0	.20	.34 ± 25%	15,000	C-2R	.625
303	359AS15	35925-0	5.0	.20	.34 ± 15%	15,000	C-2R	.625

Midget Flanged Base



304	341AS25	35926-0	5.0	.20	.34 ± 25%	15,000	C-2R	.625
305	341AS15	35927-0	5.0	.20	.34 ± 15%	15,000	C-2R	.625

Midget Grooved Base



QUALITY ASSURANCE

Sylvania's Miniature Lamp Quality Assurance Program is a full time manufacturing, inspection, and testing program aimed at providing our customers with readily available Miniature Lamps that will meet the rigid specifications required in the customer's end-use, with the greatest of reliability.

Reliability is no accident, nor can it be inspected or tested into a product; it must be designed and built in from the start. From the first step in production to the last inspection in our Quality Assurance Program, the manufacture of Sylvania Miniature Lamps is painstakingly controlled to insure this vital requirement.

The kind of reliability Sylvania strives for is not mere test results accumulated in our test laboratory, but the predictable culmination of many proven factors both in the field and at our own facilities.

STATEMENT OF WARRANTY

Sylvania Pilot and Indicator Lamps, when used with recommended Sylvania hardware, are guaranteed to meet or exceed the ratings and claims made for them on Static Life Performance and Environmental Reliability.

If any of these lamps do not live up to these standards of performance, they may be returned to the supplier for free replacement.

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